

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NZ2004/000330

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: F16L 55/00, 55/26, B08B 9/02, 9/049.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: F16L 55/00, 55/26, B08B 9/02, 9/049.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

AU IPC: F16L 55/00, 55/26, B08B 9/02, 9/049.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI: IPC (F16L-055/IC OR B08B-009/IC OR E03F-009/IC) and (FEET+ OR FOOT+ OR BRAC+ OR RADIAL+)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5080020 A (NEGISHI) 14 January 1992. See entire specification.	
A	DE 19746510 A (PIPETRONIX GMBH) 29 April 1999. See entire specification.	
A	WO 1997-014910 A (SIEMENS AKTIENGESELLSCHAFT) 23 April 1999. See entire specification.	

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
4 April 2005.

Date of mailing of the international search report
07 APR 2005

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 461964 B (ECOLE SUPERIEURE DES SCIENCES ET TECHNOLOGIES DE L'INGENIEUR DE NANCY) 18 December 1991. See entire specification.	
A	DE 4017368 A (AQUAPLUS- BRUNNENSANIERUNG KATHE MUNDING GMBH) 5 December 1991. See entire specification.	
A	EP 123762 A (REINHART) 7 November 1984. See entire specification.	
A	EP 85504 A (SUBSCAN SYSTEMS LTD) 10 August 1983. See entire specification.	
A	WO 1987 006323 A (DEN NORSKE STATS OLJESELS A/S) 22 October 1987. See entire specification.	
A	US 6076407 A (LEVESQUE ET AL) 20 June 2000. See entire specification.	
A	US 4622709 A (MATSUDA) 18 November 1986. See entire specification.	
A	GB 2159071 A (MATSUDA) 27 November 1985. See entire specification.	
A	Derwent Abstract Accession No. 96350571/35, Class Q42, JP 08165710 A, (MITSUBISHI II JUKOGYO KK.) 25 June 1996. See entire Abstract.	
A	Derwent Abstract Accession No. 2003-324249/31, Class K05, JP 2003093987 A (SAWSAD.) 2 April 2003. See entire Abstract.	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ2004/000330

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member			
US	5080020	JP	3045464	JP	3086679	
DE	19746510	CA	2250799	DE	19746510	NO 984889
WO	1997 014910	NIL				
EP	461964	CA	2044286	FR	2662989	JP 5092765
		US	5142990			
DE	4017368	NIL				
EP	123762	NIL				
WO	1987006323	DE	3612498	DK	651387	EP 264420
		NO	864605	NO	875150	US 4852391
US	6076407	NIL				
US	4622709	AU	41003/85	EP	0159272	JP 60220181
		JP	61093884			
GB	2159071	AU	42895/85	DE	3518584	FR 2564751
		GB	2159071	JP	60248256	US 4602591

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX